



Product: [23500D](#)

ACIC 300V, 6 Pr #16 Str TC, XLPE Ins E1, IS/OS, PVC Jkt, AIA Armor, PVC Jkt, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Product Description

Canadian Instrumentation Cable TC-ACIC 300V, 6 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, 90C Wet 105C Dry CSA HLABCD SUN RES -40C

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 6 | 16 AWG | 7x24 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|-----------------------------|--------------------|--------------------------|------------------------------|
| Pair(s) | XLP, XLPO, XLPE (Thermoset) | 0.025 in (0.64 mm) | 0.108 in (2.74 mm) | Black and White and Numbered |

Inner Shield

| Element | Shield Type | Material | Coverage | Drainwire Type |
|---------|-------------|-------------------------|----------|------------------|
| Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 18 AWG (7x26) TC |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 18 AWG (7x26) TC |

Inner Jacket

| Material | Nom. Thickness | Nom. Diameter | Color |
|--------------------------|-------------------|--------------------|-------|
| PVC - Polyvinyl Chloride | 0.063 in (1.6 mm) | 0.736 in (18.7 mm) | Black |

Armor

| Armor Type & Material | Armor Thickness | Diameter Over Armor |
|--------------------------------|--------------------|---------------------|
| AIA - Aluminum Interlock Armor | 0.025 in (0.64 mm) | 0.961 in (24.4 mm) |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.052 in (1.3 mm) | 1.065 in | Yes |

| | |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 1.065 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Inner Shield DCR |
|--------------------|----------------------------|
| 4.6 Ohm/1000ft | 5.4 Ohm/1000ft (18 Ohm/km) |

Voltage

Voltage Rating

300 V (CEC ACIC)

Mechanical Characteristics

Temperature

Operating

Dry: -40°C to +105°C, Wet: -40°C to +90°C

Bend Radius

Stationary Min.

12.72 in (323.1 mm)

Installation Min.

12.72 in

Max. Pull Tension: 200 lbs (91 kg)

Bulk Cable Weight: 484 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance

CEC / C(UL) Compliance: ACIC, HLABCD, ACIC

European Directive Compliance: EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

APAC Compliance: China RoHS II (GB/T 26572-2011)

History

Update and Revision: Revision Number: 0.361 Revision Date: 01-04-2024

Part Numbers

Variants

| Item # | Putup Type | UPC |
|----------------|------------|--------------|
| 23500D 0602500 | Reel | 612825322085 |
| 23500D 0605000 | Reel | 612825322108 |

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